ACCESSION NR AP5007385  AUTHOR: Model A.M.  TITLE: Polarization selector: Class 21, No. 168348  SOURCE: Byullaten: Izobretaniy: Lovarnykh znakov; no. 4, 1965, 40  FORCE: Byullaten: Izobretaniy: Lovarnykh znakov; no. 4, 1965, 40  FORCE: Byullaten: Izobretaniy: Lovarnykh znakov; no. 4, 1965, 40  FORCE: Byullaten: Izobretaniy: Lovarnykh znakov; no. 4, 1965, 40  ABSTRACT: The proposed polarization selector: Seigned in the form of a T-junction which contains wire grids and in made of Equare-cross-section waveguides: To involve the matching of all the selector sims over a wide frequency range, a transverse wire grid in placed in the wettical arm at a distance of one-half wavelength from wire grid in placed in the lovisontal arm; Orig art, has: 1 figure:  ABSCRIATION: none
AUTHOR: Model: A.M.  TYPILE: Polarization selector: Class 21, No. 168348  SOURCE: Byullaten! Excirctenty: I tovarnykh znakov; no. 4, 1965, A0  TOPIC TAGE: Estector; polarization selector; T junction selector  ABSTRACT: The proposed polarization selector is signed in the form of a T-junction which contains wire grids and is made of Equate-cross-section waveguides. To inprove the matching of all the selector syms over a wide frequency range; a transverse wire frid is haced in the vertical arm at a distance of one-half wavelength from the function spint; and two metal base pins mounted on a foam plastic plate are placed in the horisontal arm. Orig. art. has: 1 figure:  Disced in the horisontal arm. Orig. art. has: 1 figure:
AUTHOR Model', A.M.  TYPIC: Polarization selector: Class 21, No: 168348  SOURCE: Byullsten Exobreteniy Lovarnykh znakov; no. 4, 1965, 40  TOPIC TACS: Exlector: polarization selector; T junction selector  ABSTRACT: The proposed polarization selector is signed in the form of a T-junction which contains wire grids and in made of Equare-cross-section waveguides. To inprove the matching of all the selector sime over a wide frequency range, a transverse wite inid is flaced in the vertical arm at a distance of one-half wavelength from the junction spint; and two metal base pins mounted on a foam plastic plate are placed in the horizontal arm. Orig art, has: I figure.  [DV]
ROURCE Dyullsten! Isobreteniy 1 tovarnykh snakcy; no. 4, 1965, 40  ROURCE Dyullsten! Isobreteniy 1 tovarnykh snakcy; no. 4, 1965, 40  TOPIC TAGB: Exlector, polarization selector; T junction selector  ABSTRICT: The proposed polarization selector is signed in the form of a T-junction which contains wire grids and is made of square-cross-section waveguides. To inspect the matching of all the selector arms over a wide frequency range, a transverse prove the matching of all the selector arms over a wide frequency range, a transverse wire frid is placed in the vertical arm at a distance of one-half wavelength from the junction plant, and two metal base pins mounted on a foam plastic plate are placed in the horizontal arm. Orig. art. Das: 1 figure:  [DW]
TITLE Polarization selector: Class 21, No. 168348  BOURGE: Byullsten! isobreteniy I towarnykh snakcy, no. 4, 1965, 40  ROPIC TAGS: Evicator, polarization selector: Trauction selector  ABSTRICT: The proposed polarization selector is signed in the form of a Transform which contains vive grids and is made of square-cross-section waveguides. To inspect the matching of all the selector arms over a vide frequency range, a transverse prove the matching of all the selector arms over a vide frequency range, a transverse wire frid is placed in the vertical arm at a distance of one-half wavelength from the junction spint; and two metal base pins mounted on a foam plastic plate are spins in the horizontal arm. Orig. art. has: 1 figures:  [DW]
SOURCE Byulleten Izobreteniy I tovarnykh znakcy, no. 4, 1965, 40  TOPIC TAGS: Eslector, polarization selector T junction selector  ABSTRACT: The proposed polarization selector is signed in the form of a T-junction which contains wire grids and is made of square-cross-section waveguides. To improve the matching of all the selector sime over a wide frequency range, a transverse prove the matching of all the selector sime over a wide frequency range, a transverse wire frid is blaced in the vertical arm at a distance of one-half wavelength from the frid is blaced in the vertical arm at a distance of one-half wavelength from the junction spirit and two metal base pins mounted on a foam plastic plate are placed in the Borisontal arm; Orig, art, has; I figure:  [IW]
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Carl

MODEL', A. H.

USSR/Electronics - Antennas

Card 1/1

Author

: Model', A. M.

Title

: Analysis of "wave channel" type antennas

Periodical

: Radiotekhnika 9, 55-62, Jan-Feb 1954

Abstract

: Directional and traveling wave antennas are analyzed by substituting approximate expressions for the exact dependence of the reciprocal radiation resistance of two vibrators upon the distance between them. By this method antenna analysis can be reduced to merely solving difference equations of the second order. Formulas are given for calculating current distribution along the antenna and for computing directional diagrams, amplification factor, input resistance, and efficiency. Two

references: 1 USSR

Submitted

· June 19, 1953

Innustation AFIC 1/8200.4- FTS- 3562/111

# "APPROVED FOR RELEASE: 06/14/2000

# CIA-RDP86-00513R001134820018-3

FD-2498 SR/Electronics - Antennas Pub. 90-6/9 ard 1/1: Propagation of plane electromagnetic wave in a space filled with : Model', A. M. uthor Flame parallel gratings ritle : Radiotekhnika, 10, 52-57, Jun 15 : Fresent work is devoted to investigation of iregration of a plane electromagnetic waves through series of parallel cratings made of Periodical synthetic dielectric material. The method of and visit independent of the growting. Abstract 0 00 milas Utilizing the method of Hispania a square int, in are decide, which define the hand parameters for synthesis lielectrics, such as Thase velocity, refractive index, reflection total in the transit coefficient, which characterizes the jenctrating shility of a plane wind tomagner to wave through . finite muchos of plane gratings mass of a synthetic divertify material. Gra ha. Two references: 1 Call. Institution: : December 5, 1954 Submitted

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The Market State

AUTHOR: Model', A.A.

"Elements of An Antenna-Wave Gudie Channel for Multichannel Radio Relay Lines,"
A-U Sci Conf dedicated to "Radio Day," Moscow, 20-25 May 1957.

PERIODICAL: Radiotekhnika i Elektronika, Vol. 2, No. 9, pp. 1221-1224, 1957, (USSR)

- 6(4) PHASE I BOOK EXPLOITATION SOV/2322
- Borodich, S.V., N.I. Kalashnikov, A.M. Model', S.D. Manayenkov, and V.V. Petrov
- Radioreleynyye linii svyazi (Radio Relay Networks) Moscow, 1957. 36 p. (Series: Obzory po novoy tekhnike. Energetika) Errata slip inserted. 3,000 copies printed.
- Sponsoring Agencies: USSR. Gosudarstvennyy komitet po novoy tekhnike, and Akademiya nauk SSSR. Vsesoyuznyy institut nauchnoy i tekhnicheskoy informatsii.
- Ed.: V.I. Siforov, Corresponding Member, USSR Academy of Sciences.
- PURPOSE: This booklet may be useful to engineering personnel working with radio relay systems.
- COVERAGE: The authors discuss radio relay lines existing in the USSR and abroad. They also describe the utilization of tropospheric scattering of radio waves in radio and television broadcasting. There are 10 references: 2 Soviet (both trans-

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adio Relay Networks	
lations) and 8 English.	
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Use of Radio Relay Lines  Brief characteristics of radio relay communication  Existing radio relay lines in the USSR and introduction of	3 3 of
Existing radio relay lines in solutions Soviet equipment Existing radio relay lines abroad and their use Exonomic effect of introducing radio relay communications	U
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Antennas and waveguides Power supply and automatic control systems of unattended	
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Radio Relay Networks	SOV/2322	
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Conclusions and Proposals	37	
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AYZENBERG, Grigoriy Zakharovich; MODEL', A.M., otvetstvennyy red.;
VORONOVA, A.I., red.; VEXERRADB, A.B., tekhn.red.

[Ultrashort wave antennas] Antenny ul'trakorotkikh voln. Moskva,
Gos.izd-vo lit-ry po voprosam sviazi i radio, 1957. 698 p.

(Radio, Shortwave--Antennas)

MA STEEL AM.

106-10-., 11

AUTHORS:

Ayzenberg, G.Z., Model', A.M., Pozdnyakov, L.P., rdinary 'en-

bers of the Society

TITLE:

Cylindrical Long- and Short-Wave Slot Antennae (Torlin richeskiye

shchelevyye dlinnovolnovyye i srednevolnovyye intenny)

PERIODICAL:

Radiotekhnika, 1957, Vol. 12, Nr 10, pp. 5 -16 (USSR)

ABSTRACT:

Antennae on low supports for wireless are described. The authors show that by means of the utilization of cylindrical slot vibrators, which are known within the range of centimeter- and decimeterwaves, as medium-wave antennae, the height of the antenna can be reduced to 0,3 maintaining a high degree of efficiency as well as the range of free transmission demaned. These slot vibrators must be modified according to the medium-wave range. The tesults of theoretical and experimental investigations are given here. The reasons for the utilization of high antennae are investigated and the ways for the solution of problems developing when changing over to low supports are shown. The authors show that such antenna must be looked for in which the currents to the earth do not flow to one single point but are deconcentrated over the whole circumference. The current structure as well as the earth losses in the near of a cylindrical slot antenna are in-

Card 1/2

108-10-2/11

Cylindrical Long- and Short-Wave Slot Antennae

vestigated. Formulae are deduced for the calculation of the current intensities in earth for vibrations with the height— and diameter—conditions used most in practice. By means of the data obtained the earth system can be calculated. The directivity diagram in a vertical plane as well as the radiation resistance of a cylindrical slot antenna are investigated. The results of the experimental investigation are given: — 1.) The distribution of current over the circumference of the antenna was almost regular within the long—wave. 2.) The degree of efficiency was 0,9 with two waves of 430 and 530 m. 3.) The range of free transmission was 18,4 kcycles with the 600 m wave and 34 k cycles with the 530 m wave. There are 11 figures and 2 Slavic references.

SUBMITTED:

July 2, 1957

ASSOCIATION:

Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi

im. A.S. Popova

AVAILABLE:

Library of Congress

Card 2/2

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134820018-3"

0

MODEL, A. M.

B. E. Kinber, A. M. MCDEL: "Cross-polarization characteristic of mirror antennas." Scientific Session Devoted to "Radio Day", May 1988, Trudrezervizdat, Moscow, 9 Sep. 58

Emission created by linearly polarized source located at a mirror focus does not retain its polarization plane. The polarization of emission for an arbitrary axisymmetric mirror antenna excited by a source whose dipole moment is perpendicular to the mirror axis is analyzed. The cross-polarization pattern for sharply focussed antennas is one-half the difference of the pattern over the principal polarization component in the E and H planes. The relative portion of the energy incident is cross-polarization emission is calculated.

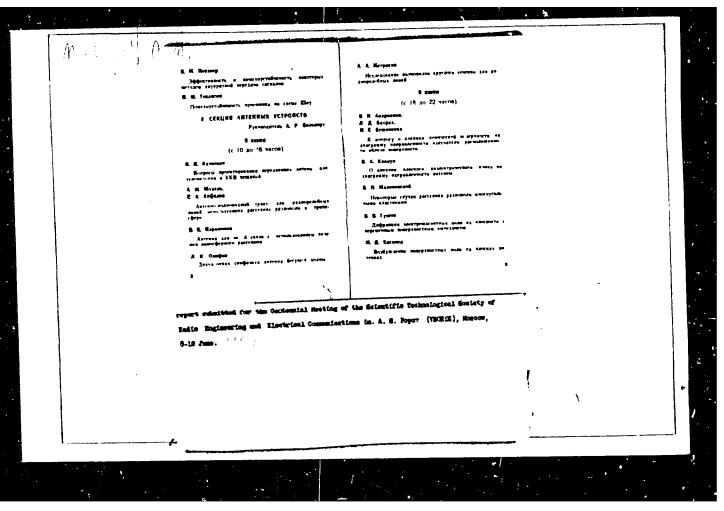
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Ė	AUTHOR: Me	del!, A. M.	
		litude-ixequency characteristic of the waveguide bandpass filter far	
	from the resc		
· Š	SOURCE: Ele	ktrosyyaz , ho. 1, 1965, 56-60	
	TOPIG TAGS	waveguide filter; bandpass filter	
	A BOTT A CT.	As the conventional concentrated-capacitance-inductance equivalent	
	The state of the	Swannide-resonator-type filter is valid only within 2-3% of the	
		me a general formula for the transfer constant of a two-iris wave-	
	guide resonale	or (filter section) is developed. The square modulus of the transfer	
£	constant is gi	ven by:	
		171-1+04.	
	Card 1/2		<b>18</b>
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E 29922-65	
ACCESSION NR: AP5003854  where $Q = V + v \times K \left( \frac{h}{h} \right)^{2}$	
[[	
It is shown that A is a generalised relative "detuning!" and corresponds to the value 24/ in the near-resonance range. The difference between the two is independent of the filter Q-factor and is entirely dependent on the number of	
resonators and the ratio of the waveguide size to the wavelength. Orig. art. has:  4 figures and 14 formulas:  ASSOCIATION: none	
SUBMITTED: 24Jun64 ENCL: 00 FW SUB CODE: EQ NO REF BOY: 003 OTHER: 000 CF SUB CODE: EQ	
Card 2/2	

MOSIKOV, R.M.; MITITELLO, B.F.; MODEL, A.M.; SAVITSKIY, G.A.; FEDOSCVICH, Ye.G. SHCHITININ, A.P., FEDUNIN, G.A., otv.red.; GALCYAN, M.A., red. SHEFER, G.I., tekhn.red.

[Handbook for electric communications]. Inshenerno-tekhnicneskii apravochnik po elektrosviazi. Mcskva, Gos.izd-vo lit-ry po veprenan sviazi i radio. Vol.8, [Radio], Radiosviaz\*, 1958, 500 p. (MIRA 11:3)

1. Russia (1923- U.S.S.R) Ministerstvo svyazi. (Radio)



MODEL', A. (Leningrad); ZAKREVSKIY, V. (Leningrad)

Device with a measuring bridge. Radio no.3:37-39 Er '61.

(Transistors--Testing)

GRADOV, G.A.; KALININA, G.F.; MODEL!, A.M.; NEVRAYEV, G.A.; SAMOYLOV, A.V.[deceased]; SVIRSKIY, V.A.; KOSITSKIY, Ya.V., kand. srkhit., nauchnyy red.; MANIKOV, M.Ye., kand. med. nauk, nauchnyy red.; MOROZOVA, G.V., red.; ERUSINA, L.N., tekhn. red.

[Sanatoriums and rest homes; manual on designing] Sanatorii i doma otdykha; posobie po proektirovaniiu. Moskva, Gosstroiizdat, 1962. 223 p. (MIRA 15:7)

1. Akademiya stroitelistva i arkhitektury SSSR. Institut obshchestvennykh zdanii i sooruzhenii.

(Sanatoriums) (Labor rest homes)

S/108/62/017/004/004/010 D288/D301

9,1912

Model', A.M., and Talyzin, N.V.

TITLE:

AUTHOR:

Oblique incidence of a plane wave on a selective re-

flecting surface

PERIODICAL: Radiotekhnika, v. 17, no. 4, 1962, 23 - 33

TEXT: The reflecting surface is formed by a parallel array of dipoles of 21 length, their centers separated by 2a and the parallel spacing being d. Two general cases are considered: First, case "E" where electric field vector E is parallel to the dipoles, and magnetic vector H forms an angle  $\varphi$  with the array plane, and the second case "H", where H is parallel to the dipoles, and E forms  $\theta$  with the plane. Analysis of the plane diffraction follows Talyzin (Ref. 1: Elektrosvyaz', 3, 1961), by analogy with phenomena in a continuous reflecting surface; the reflection coefficient  $p = E_1(\text{selective})^{/E}2(\text{cont.})$ . Case "E" is considered first for a continuous reflecting plane, and formulas are given for the current density and the vector of reflected E. To obtain corresponding vacard 1/2

Oblique incidence of a plane wave ...

lues for the dipole array, current distribution along the individu-\$/108/62/017/004/004/010 lues for the dipole array, current distribution along the individual al dipole has to be calculated. Expressions for I, Z input and p are given in terms of Io (current node), 21,  $\lambda$  and incidence angle. For ation impedance  $Z_1(E)$  of a single symmetrical dipole in the field of neighboring dipoles, Fourier analysis yields complex expressions containing Bessel, Neumann and Macdonald functions. In the case "H" the mathematical treatment has to be simplified by assuming linear phase characteristics of dipole currents. Again expressions are written for E<sub>1</sub>, E<sub>2</sub>, I<sub>0</sub> and p, leading to calculation of Z<sub>1</sub> (H) which is then split into real and reactive components. As an example of the practicability and accuracy of the method, 4 curves for each case are reproduced, plotting p vs.  $\lambda$  for  $\varphi$ , resp.  $\theta$  = 00, 22.5 450 and 670. They show good agreement with measurements. There are SUBMITTED:

Card 2/2

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APPROVED FOR RELEASE: 06/14/2000

Model A.M.

AID Nr. 979-6 29 May

MODE  $H_{10}$  DIFFRACTION ON A LATTICE DIAPHRAGM CONSISTING OF N

Model', A. M. Radiotekhnika, v. 18, no. 4, Apr 1963, 12-21.
S/108/63/018/004/003/008

The method of averaged boundary conditions is used to derive formulas for the coefficients of reflection from diaphragms consisting of n rods equidistant from each other and from the waveguide walls. The Q-factors of waveguide cavities constituted by two such diaphragms are calculated with an accuracy of 3-5%. A comparison of the theoretical results with the experimental shows that at low rod-diameter-to-waveguide-width ratios (d/a  $\leq$  0.01), averaging boundary conditions on the basis of 2 and 3 points yields an agreement of theoretical and experimental data. Moreover, at d/a  $\geq$  0.01, averaging based on 4 points greatly increases the accuracy of the calculation, and averaging

Card 1/2

AID Mr. 979-6 29 May

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MODE H10 DIFFRACTION [Cont'd]

s/108/63/018/004/003/008

based on 8 points insures the virtual coincidence of theoretical and experimental data. The expressions derived make it possible to determine energy losses in the cavities formed by the diaphragms. The method of averaged boundary concinous can be applied to solving other problems, i.e., for analyzing plane wave diffraction on various lattices in order to determine the effect of transverse lattice wire dimensions on reflection and transmission coefficients.

L\_19780-65 EAT(0)/MBL//MAT(:)/MBL(t)/ ACCESSION NR. AP4047808 5/0108/64/019/010/0015/0021 AUTHOR: Model: A. Ma (Active member) TITLE Andivale b. a directional coupler with discrete coupling B SOURCE: Radiotekhnika, v. 19, no. 10, 15-zi + 1964 TOPIC TACS: directional coupler SHE communication ABSTRACT: A general theoretical analysis of a directional coupler consisting of two achitrary lines coupled by means of discrete elements is presented. The coupler is represented by a chain of series-connected branches; each branch is regarded as an eight-pole network symmetrical with respect to the vertical axis. Difference equations are set up which determine the distribution of amplitudes and phases of the field strength along the both lines constituting the directional coupler. As a result of solving the difference equations simultaneously with the terminal conditions of the directional coupler, formulas are evolved for Card 1/2

L 19780-65 AGCESSION NRI AP4047808			
propagation constants, incided transfer constant, and other formulas is illustrated by an coupled lines having the same impedances. Orig. art. has	example of a directional co	The application of the upler consisting of two	
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L 2187-66 EWT(1)/EWA(h)

ACCESSION NR: AP5020761

UR/0108/65/020/008/0023/0030 621.372

AUTHOR: Model', A. M. (Active member)

TITLE: Series circuits for waveguides

SOURCE: Radiotekhnika, v. 20, no. 8, 1965, 23-30

TOPIC TAGS: waveguide filter, resonator, resonator Q factor, waveguide

ABSTRACT: Rejector filters, the major component of which consists of a series circuit connected in parallel with the main line are often needed in waveguides. Such series segments can be in the form of a volume resonator connected with the waveguide through slits in the wide or narrow waveguide walls. The present author carries out an analysis of waveguide resonators equivalent to series circuits and derives expressions for the determination of the Q-factor under load, the smplitude-frequency and phase-frequency characteristics, and the magnitude of the efficient (from the resonator) for large detuning are also given. Orig, art.

Card 1/2

L 2187-66				
ACCESSION NR: AP502076	1			
ASSOCIATION: Nauchno-t (Scientific-Technical S SUBMITTED: 21Mar63		estvo radiotekhnik	d i elektrogyvast	
NO REF SOV: 002	BUCK	00 Mic Hectr	ocommunication)	
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# "APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134820018-3

SOURCE CODE: UR/0108/66/021/003/0031/0037 EXT(d)/EXT(1)/ESC(k)-2 230-6€ ACC NR. AP6021915 AUTHOR: Model', A. M. (Active member)

ORG: (Scientific and Technical Society of Radio Engineering and Telecommunications im. A. S. Popov (Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi) TITLE: Electromagnetic-wave propagation in two bounded waveguides of different cross sections

SOURCE: Radiotekhnika, v. 21, no. 3, 1966, 31-37

TOPIC TAGS: electromagnetic wave, wave propagation, wave equation, waveguide

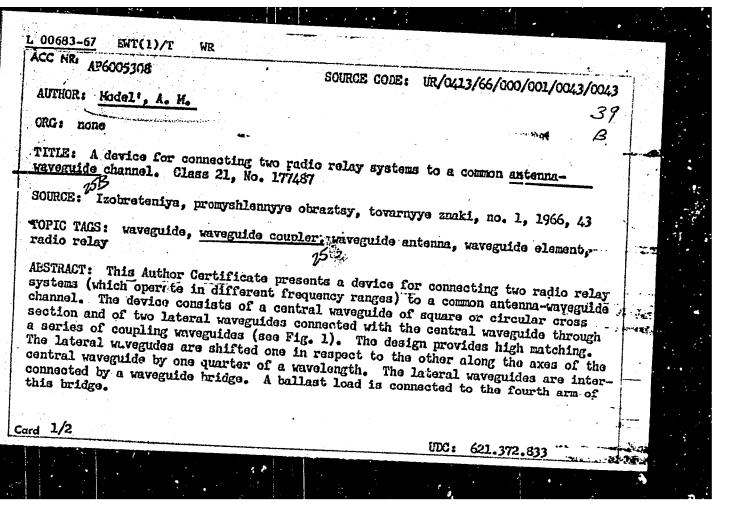
ABSTRACT: An approximate analysis of electromagnetic-wave propagation in two bounded waveguides of different cross sections has been expounded. The waveguides are bounded by a long continuous opening. As a result of analysis, equations and diagrams have been obtained for determining the constant propagation of three type-1 waves along the longitudinal axis of the system. Equations have been obtained

Card 1/2

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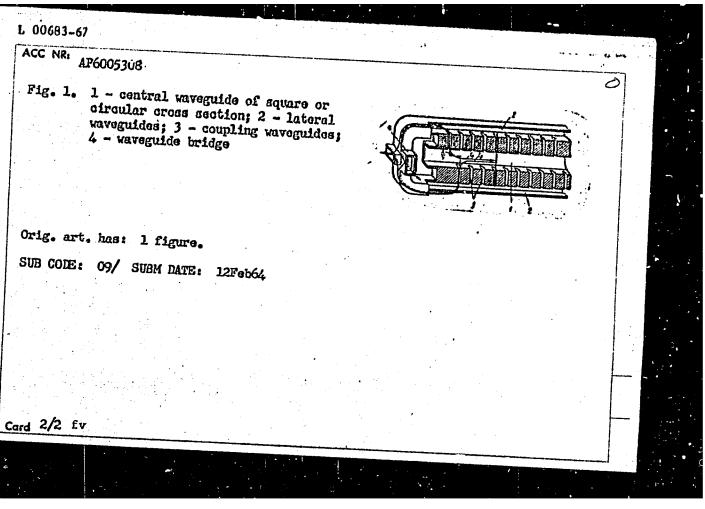
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r an approximate determination of the field structure in bounded waveguides t. has: 6 figures and 30 formulas. [Based on author! s.abstract!	. :	
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## "APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134820018-3

ACC NR: AP7005610

SOURCE CODE: UR/0413/67/000/002/0049/0049

INVENTOR: Ayzenberg, G. Z.; Model', A. M.

ORG: None

TITLE: A passive radiator for a radio relay line. Class 21, No. 190435

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 49

TOPIC TAGS: radio relay, signal transmission, passive signal processing, antenna

ABSTRACT: This Author's Certificate introduces: 1. A passive radiator for a radio relay line. The unit is designed for installation between active relay stations. The distance between active stations is increased by making the device in the form of a solid or grid-type flat or curved metallic surface perpendicular to the line joining the transmission and reception points. 2. A modification of this radiator made from a material which is permeable for electromagnetic waves, but with a phase velocity differing from the speed of light. The thickness of the radiator is such that the phase of the field intensity on the back side is rotated through 180° with respect to the primary field on this same surface.

**a** ()...

SUB CODE: 09/ SUBM DATE: 19Feb54

Card 1/1

UDC: 621.396.677.83

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134820018-3"

MODEL; A.Y.

CHEKMAREV, Yakov Fedorovich, sostavitel'; BOGDANOV, I.M., uchitel' matematiki; KODEL', A.Ya., uchitel'; GHUSOV, N.V., uchitel'; PAVUK, T.I., uchitel'— HITSE; ADMINISTRATIONA, N.K., uchitel'nitsa matematiki; BORISOV, S.A., uchitel' matematiki; KITAYGORODSKIY, P.I., uchitel' matematiki.

[Teaching mathematics in the schools for young workers] Iz opyta prepodavaniia matematiki v shkolakh rabochei molodezhi; sbornik statei. Moskva. Izd-vo Akademii pedagog. nauk ESFSR, 1952. 128 p. (MLRA 6:5)

1. Akademiya pedagogicheskikh nauk RSFSR, Institut metodov obucheniya.
2. Shkola rabochey molodyezhi No 52, Moskva (for Bogdanov). 3. Shkola rabochey molodyezhi No 31, Leningrad (for Model'). 4. Shkola rabochey molodyezhi No 65, Moskva (for Gnusov). 5. Shkola rabochey molodyezhi No 65, Moskva (for Pavuk). 6. Shkola rabochey molodyezhi No 71, Leningrad (for Zdravamyslova). 7. Shkola rabochey molodyezhi No 32, Moskva (for Borisov).
8. Shkola rabochey molodyezhi No 45, Moskva (for Kitaygorodskiy).
(Mathematics--Study and teaching)

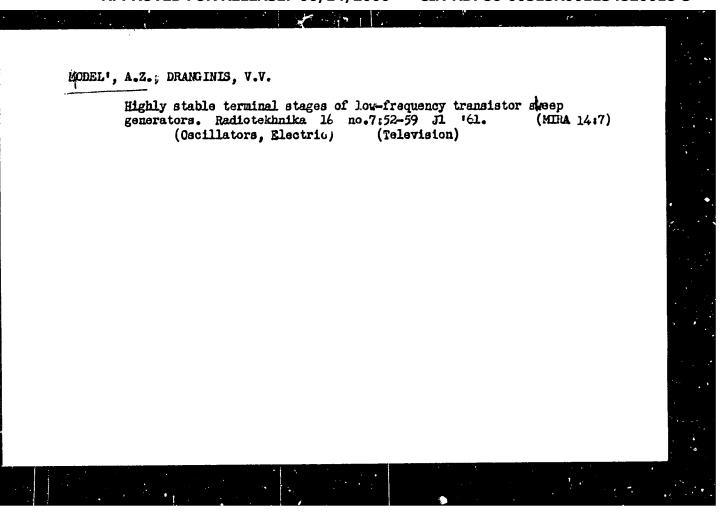
L 11612-66 EWT(1)/EWA(h) ACC NR: AP5028791 SOURCE CODE: UR/0108/65/020/009/0046/0057 AUTHOR: Model', A. Z. (Active member); Shishkov, G. N. (Active member) ORG: Scientific and Technical Society of Radio Engineering and Electrocommunication (Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi) TITLE: Positive-feedback sawtooth-voltage transistorized oscillators analyzed SOURCE: Radiotekhnika, v. 20, no. 9, 1965, 46-57 TOPIC TAGS: transistorized oscillator, electronic oscillator, sawtooth oscillator electronic feedbacky electronic circuit, transistor ABSTRACT: Transistorized positive-feedback ("bootstrap") sawtooth outillators have not come into wide usage because of their too long flyback and insufficient sawtoothvoltage linearity. A new method of correcting the nonlinearity is suggested and mathematically substantiated; the method is based on controlling the gain of the oscillator amplifier. Fundamental relations are developed for two circuits: with a feedback battery and with a feedback (large) capacitor. For eliminating the sawtoothvoltage nonlinearity, introduction of a two-stage transistorized amplifier with 4 variable in-excess-of-1 gain is recommended; the 2-stage amplifier replaces the **Card** 1/2 UDC: 621.396

emitter followerification characteristihe use of a voltage sour	with P10 ic and a voltage=	l and Pl gain stal regulation	05 transis ble within l g (Zener)	tors exhib 1.5% at te diode in l	ited a pr mperatu ieu of the	ractical res witi large	ly linea: iin 20 ± capacito	r transie 30C. Al or (feedb	150.
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ARTYM, Anatoliy Dmitriyevich; MODEL', A.Z., red.; SOBOLEVA, Ye.M., tekhn.
red.

[Theory and methods of frequency modulation] Teoriia i metody
chastotnoi moduliatsii. Moskva, Gos. energ. izd-vo, 1961. 242 p.
(MIRA 14:9)

(Radio frequency modulation)



MODEL', D.

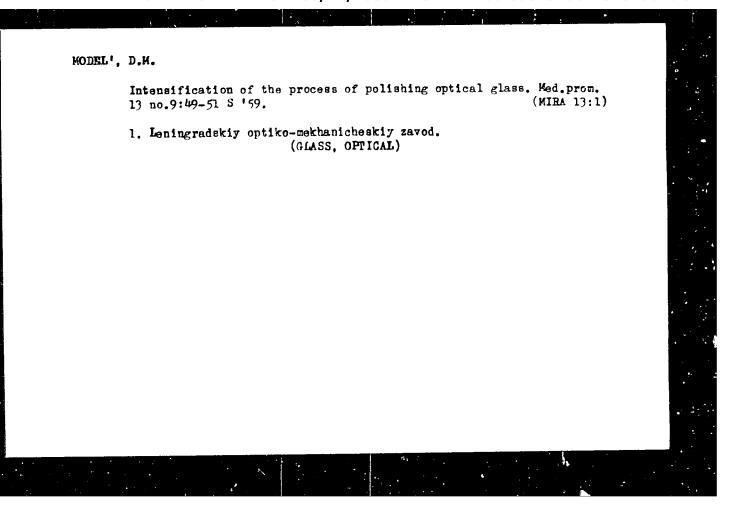
Profabricated grain gallery on the top of an elevator. Kuk.-elev. prom. 22 no.12:5-7 D '56. (KLRA 10:2)

1. Glavnyy mekhanik tresta TSentrokhlebostroy. (Grain elevators)

## HODEL', D.M.

High-speed grinding of optical parts. Med.prom. 12 no.11:47-52 N'58 (MIRA 11:12)

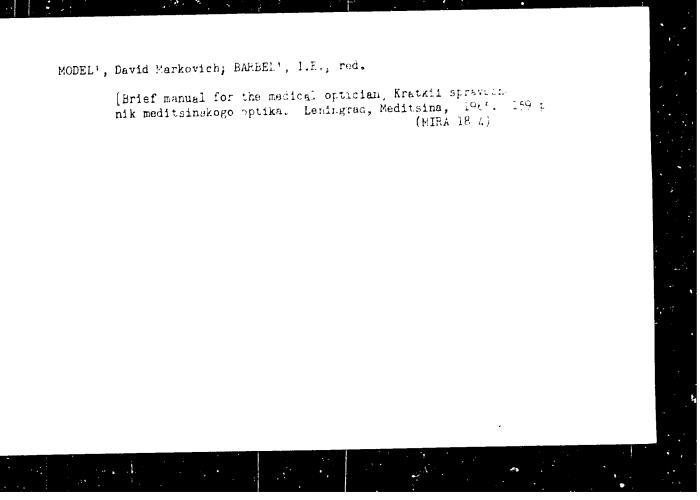
1. Leningradskiy optiko-mekhanicheskiy zavod. (GRINDING AND POLISHING)



MIRONOV, Ye.F.: MODEL', D.M.

Intensification of the production of eyeglass lenses. Med.prom. 13 no.10:44-46 0 '59. (MIRA 13:2)

1. Leningradskiy optiko-mekhanicheskiy zavod. (GLASS, OPTICAL)

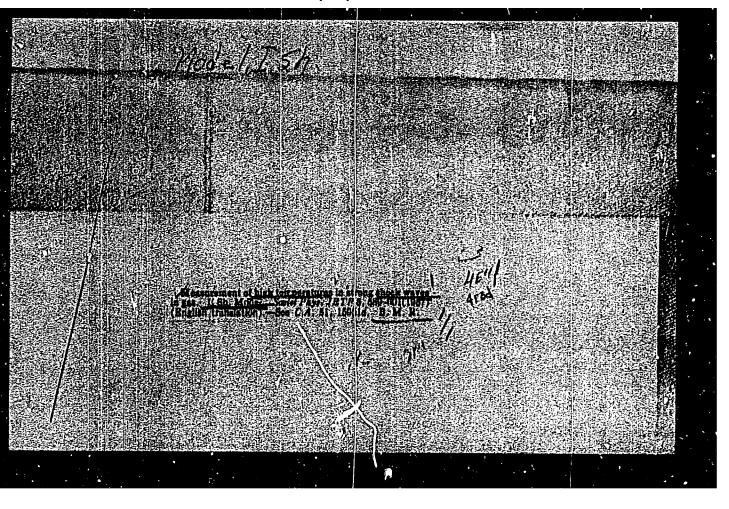


MODEL', D.M.

Acceleration of the processing of astignatic lenses. Med.pros.
14 no.3:45-48 Mr. '60. (MIRA 13:6)

1. Leningradskiy optiko-mekhanicheskiy zavod.
(GLASS, OPTICAL)

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134820018-3



AUTHOR TITLE

MODEL', I.Sh.

56-4-12/52

Heasuring of High Temperatures in Strong Shock Waves

(Izmereniye vysokikh temperatur v sil'nykh udarnykh volnakh

PERIODICAL

Zhurnal Eksperim, i Teoret. Fiziki 1957, Vol 32, Wr 4,

PP 714-726 (USSR).

ABSTRACT

The present paper describes a photographic method for the measuring of nigh temperatures and of the coefficient of the absorption of radiation by gases in a plane shockwave. The individual chapters of the paper deal with the photographic method for the measuring of high temperatures, the employment of the photographic method for the measuring of air temperature in a plane shock wave, measuring of the absorption coefficient and the absorption capacity, as well as the measuring of the temperature of heavy rare gases in

Some Conclusions: The photographic method discussed here uses the comparison of the density of the photographic image of the front of the shock wave with the density of the

CARD 1/3

CIA-RDP86-00513R001134820018-3" **APPROVED FOR RELEASE: 06/14/2000** 

56-4-12/52

Measuring of High Temperatures in Strong Shock Waves in Gases.

illustration of the temperature normal in a narrow wave length interval. The author develops a method for the working on the photochronograms for the determination of the coefficient of the absorption of the radiation in the front of the plane shock wave. The temperatures measured in the plane shock wave neasured in air amount at velocities V = 6,4; 7,1 and 8,05 km/sec respectively to 7480; 9270, 10900°K. respectively. The accuracy of these temperature measurings amounts to  $\pm$  10%. The experimental data obtained agree satisfactorily with the theoretically computed values. The coefficient of absorption of the radiation ( $\lambda = 0.625 \mu$ ) in the front of the plane shock wave in air at T = 7480 ok amounted to T = 7480 ok to 1,66 cm<sup>-1</sup> and at T = 10900 ok to  $3.7 \text{ cm}^{-1}$ . The Temperatures stated in the front of strong shock waves in heavy rare gases were by several degrees lower than the computed values. The analysis of the possible reasons of this disagreement showed the following: At very high temperatures the heating of the gas located before the front essentially influences measuring results by the radiation of the shock wave. The layer of gas heated by radiation becomes

CARD 2/3

#### CIA-RDP86-00513R001134820018-3 "APPROVED FOR RELEASE: 06/14/2000

Measuring of High Temperatures in Strong Shock waves in Gases.

nontransparent and screens the "hotter" front of the shock wave. The temperature of this layer is always lower than

the real temperature of the front. (With 14 Illustrations and 3 Tables.)

ASSOCIATION:

Chemical-Physical Institute of the Academy of Science of

the U.S.S.R.

PRESENTED BY:

SUBMITTED: 30.11. 1956.

AVAILABLE:

Library of Congress.

CARD 3/3

sov/56-34	- <b>3-1</b> 0/55
Model', I.	

AUTHORS:

Samylov, S. V., Tsukerman, V. A., Model', I. Sh.

TIPLE:

The Glow of Gases Irradiated by Soft X-Rays (Svecheniya gazov pod deystviyem myagkogo rentgenovakogo izlucheniya)

PERIODICAL:

Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, 1958, Vol. 34, Nr 3, pp. 599 - 608 (USSR)

ABSTRACT:

The purpose of this work is a more detailed investigation of the glow of gases and metals under the action of soft X-rays. The authors explained the dependence of the intensity of the glow on the type and on the pressure of the gas and they also obtained some data on the mechanism of the transformation of the X-rays into visible light. First the transformation of the X-rays into visible light. First the experimental method is discussed in detail. A diagram illustrates the results of the first measurements and of the strates the results of the first measurements and of the intensity of the glow as a function of the air pressure for intensity of the glow as a function of the air pressure for the general by a Be, Cu, Mo, Sn, and Pt. These measurements were made by a photoelectronic multiplier. The absolute yield of light increases with increasing atomic number of the metal. When the pressure is reduced from 760 to 7 to 10 mm Hg

Card 1/3

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The Glow of Gases Irradiated by Soft X-Rays

the intensity of the glow increases in most of the metals. A further diminution of the pressure leads to a monotonous decrease of the intensity. At pressures of about  $10^{-2}\,\mathrm{mm}$ mercury column and below the photoelectronic multiplier with the maximum amplification records no noticeable yield of light. These unexpected results showed that the observeable glow is not connected with the fluorescence of the metals under the action of X-rays. It was supposed that the glow of the gas in the chamber is excited by such electrons which are knocked out of the metallic surface and of the atoms of the gas according to the photoeffect by the Roentgen quanta. The added photographs of the glow in the air of the chamber prove this assumption. A further proof for the electranic nature of the excitation of the glow in gas when irradiated by X-rays resulted from photographing the glow of the air in a magnetic field. The arrangement of this experiment is illustrated by a figure. Further diagrams among others illustrate the following: The dependence of the intensity of the glow of air and argon on the pressure in case of absence of a metallic surface in the chamber, the pressure dependence of the intensity of the glow of a mixture of 80 % Ar + 20 %  $0_2$ , the results of the microphotometric

card 2/3

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The Glow of Gases Irradiated by Soft X-Rays

evaluation of the spectrogram of the glow of argon at atmospheric pressure. The last paragraph gives a detailed discussion of these results. The following can be assumed as proved: In case of energies of the ionizing radiation, by far, surmounting the ionization potential of the gas, the glow occurs as a consequence of electron transfers and it is essentially determined by the atomic and molecular properties of the gas, by its density and its admixtures. Finally the authors draw some practical conclusions from the here described experiments; these conclusions are of interest for working with gas-scintillators. There are 9 figures, 1 table, and 17 references, 5 of which are Soviet.

SUBMITTED:

October 10, 1957

Card 3/3

KUZNETSOV, F.O.; LEBEDEV, N.N.; MODEL', I.Sh.; TSUKERMAN, V.A.

Using coexial photocells for recording high-speed luminous phenomena. Prib.i tekh.eksp. 6 no.5:132-134 540 '61. (MIRA 14:10) (Photoelectric measurements)

\$\delta\delt

246800

AUTHORS: Lebedev, N.N. and Model', I.Sh.

TITLE: Electronic photo-recorder

PERIODICAL: Pribory i tekhnika eksperimenta, no. 1, 190-, 169 - 172 .

TEXT: The instrument can be used to investigate various light phenomena (either internally or externally stimulated) at time-base speeds from 10 - 280 km/s. The light from the investigated object is projected by an input objective onto the cathode of an electron-optical converter (EOC) through a slot situated near the external glass wall of the photocathode. The light image is converted into an electronic image by the photocathode. The latter is focused and accelerated by the electrostatic field of an electron lens which is formed by the photocathode and a diaphragm. It is then transmitted to the output fluorescent screen of the converter, where it is converted again into a visible image and can be photographed. During the transfer from the photocathode to the screen, the electron beam

Card 1/4

Electronic photo-recorder

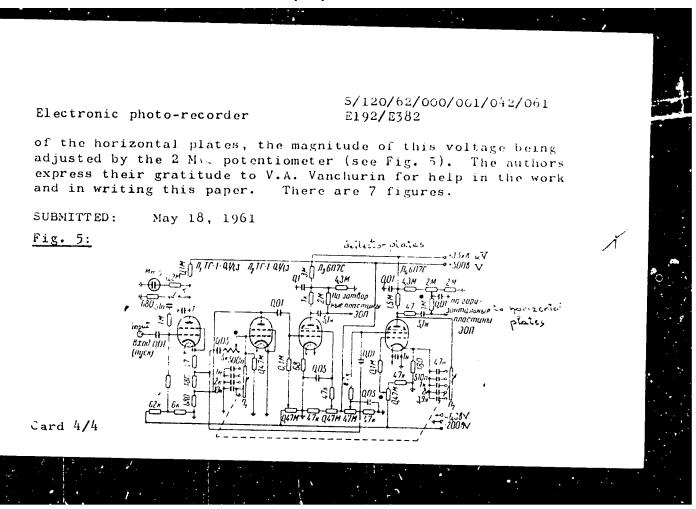
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carrying the image passes through the electric fields of a number of deflector plates o: the EOC and it can easily be controlled. Control of the exposure time is performed by two pairs of electrodes which form an electronic shutter operated by a shutter-pulse generator. This generator is triggered at the required time instant by the investigated phenomenon by employing one of the standard methods (Ref. 1 - L.V. Al'tshuler, K.K. Krupnikov, B.N. Ledenev, V.I. Zhuchikhin, M.I. Brazhnik -Zh. eksperim. i teor. fiz., 1958, 34, 874). The signal of the converter is shaped into suitable triggering pulses and these actuate the shutter-pulse generator and the time-base. A circuit diagram of the photo-recorder is shown in Fig. 5 (1 - triggering input; 2 - shutter plates of the EOC; 3 - two horizontal plates of the EOC). The electron-optical converter is of the type [ / M-3M (PIN-ZM) with an Sb-Cs photocathode having a sensitivity of 70 µA/lumen (Ref. 13 - M.M. Butslov - Progress of Scientific Photography Uspekhi nauchn. fotogr., v.6, 1959, 76). The triggering signal from t'e investigated effect actuates the shaping circuit which, in turn, actuates the Card 2/4

Electronic photo-recorder

5/120/62/004/001/041/001 E192/E582

shutter-pulse generator and the time-base. The first tube of the circuit of Fig. 5 is triggered by the first signal from the converter and all the following pulses have no effect on it. After completing the investigation, the tube is extinguished by means of the key  $\,\mathrm{K}\,$  . The positive pulse produced at the cathode of the first tube is applied to the anode and the first grid of the second tube and the grid of the fourth tube.  $\lambda$ shutter pulse having an amplitude of +450 V is thus produced at the anode of the second tube. This is amplified by the third tube, whose out, it is 1.0 kV; this is then applied to the shutter plates of the ECC. Simultaneously with the shutter, the pulse from the cathode of the first tube actuates the fourth tube where a negative pulse having an amplitude of 3.5 kV is obtained at the anode. This is applied to the horizontal deflection plates of the EOC. This time-base generator makes it not to control the velocity of the electron beam within the range from 10 - 280 km/sec. The instrument is also provided with facilities for shifting the image along the horizontal axis of the converter. This is done by applying a direct voltage to one Card 3/4



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L 9878-63 EPR/EPA(b)/EWI(1)/EWG(k)/BDS/EEG(b)-2/ES(w)-2-AFFTC/ASD/ESD-3/AFWL/CSD-Ps-4/Pd-4/Pz-4/Pab-4-AT/WW ACCESSION NR: AP3003084 S/0056/63/044/006/1760/1764

AUTHOR: Yoytenko, A. Ye.; Model', I. Sh.

82

TITIE: Generation of strong shock waves by electric discharges in gaps

SOURCE: Zhurnal eksper. i teor. fiziki, v. 44, no. 6, 1963, 1760-1764

TOPIC TAGS: shock waves, electric gap discharges, moving plasma

ABSTRACT: Shock waves in a narrow gap located between two parallel nonconductive plates were investigated in order to study the expansion rate of spark channels. The experiments were made with current-rise rates of up to 2 x 10 sup 11 amp/sec. A 14.4-microfarad, 10-kv bank of capacitors was used to generate shock waves in hydrogen, helium, argon, and air at a pressure of 1 atm and gap dimensions of 2-10 mm. It was found that 1) the observed velocity of motion of border glow is the front velocity of the shock waves; 2) the velocities of broadening of a spark channel are determined mainly by current densities of lischarge cross sections in accordance with I/S = constant for a discharge current increasing linearly, and I/S = 1/t for a cylindrical broadening at a constant velocity (where I is the current in amperes, S is the discharge cross section in cm sup 2, and t is the time in seconds); 3) the velocity of channel broadening depends only slightly on Card 1/2

L 9878-63
ACCESSION NR: AP3003094

time and plasma conductivity; and 4) temperatures and pressures in a spark channel can be determined by evaluating the front velocities of the shock waves. Spark discharges with high magnitudes of dI/dt can be utilized for the generation and investigation of strong shock waves in gases. A shock-wave speed of 28 km/sec was measured in hydrogen. Orig. art. has: 6 figures and 3 formulas.

ASSOCIATION: none

SUBMITTED: 14Dec62

DATE ACQ: 23Ju163

ENCL: 00

SUB CODE: 00

NO REF SOV: 009

OTHER: 000

Card 2/2

JD/WW IJP(c) EWT(d)/EWT(1)/EWP(m)/EWT(m)/EWP(t)/ETI SOURCE CODE: UR/0020/66/169/003/0547/0549 L 41082-66 AP6027950 ACC NRI Voytenko, A. Ye.; Model', I. Sh.; Samodelov, I. S. AUTHOR: ORG: none Brightness temperature of shock waves in xenon and air TITLE: AN SSSR. Doklady, v. 169, no. 3, 1966, 547-549 SOURCE: shock wave, brightness temperature, SHOCK WAVE VELOCITY, TOPIC TAGS: ABSTRACT: Experiments were made to determine the dependence of the brightness temperature of a shock wave on its velocity. The shock wave was generated in a specially designed assembly by an explosive charge. The charge ruptured an aluminum diaphragm and discharged into a hemispherical vessel which was closed by another diaphragm connecting it with a cylindrical tube; the hemispherical vessel was filled with hydrogen, which, after rupture of the diaphragm, generated a shock wave in the cylindrical tube filled with xenon or air. The maximum shock velocities in xenon and air were 37 and 43 km/sec, respectively. brightness temperature in xenon had a maximum of 50,000K at a shock velocity of 18 km/sec; with a further increase in velocity, it decreased to 23,000K. A maximum brightness temperature of 73,000K was recorded in air at a shock velocity of 43 km/sec. Orig. art. has: 4 figures. [PV] SUB CODE: 20/ SUBM LATE: 228ep65/ ORIG REF: 011/ ATD PRESS: 5055 Card 1/1 11b

MODEL', Kh. M., Cand of the Sci -- (Hiss) "Phenology of the Malaria Mescrito Anopheles
Maculinannis Meig in Berorussian SSR," Minsk, 1959, 15 pc (Selorussian State
University im V. I. Lenin) (KL, 8-60, 1.5)

SAVITSKIY, B.P.; MODEL, Kh.M.; MISHAYEVA, N.P.

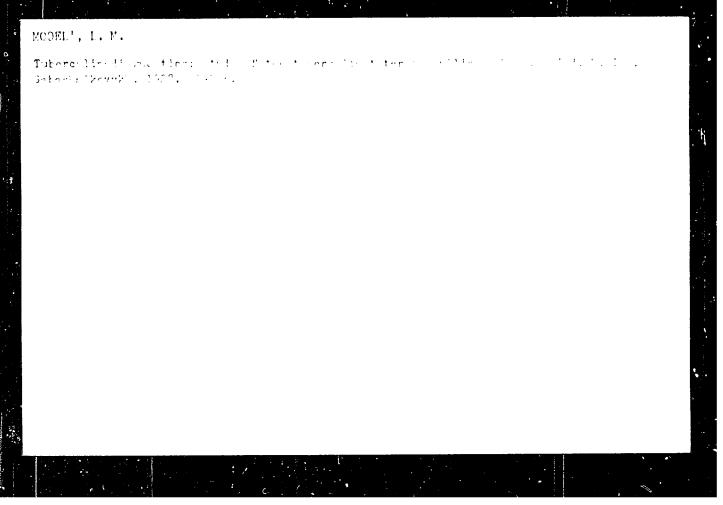
Bloodsucking mosquitoes (Diptera Culicides) of the White Russian S.S.R. Ent. oboz. 41 no.2:350-354 (62. (MIRA 15:11)

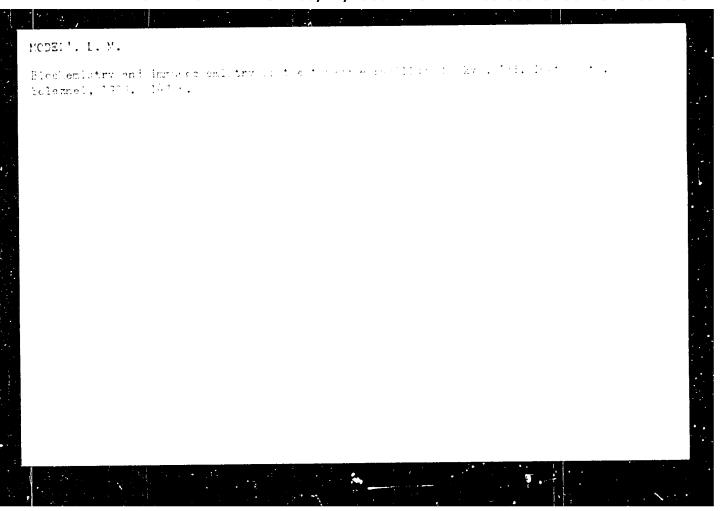
1. Institut mikrobiologii, epidemiologii i gigiyeny, Minsk.

(White Russis -- Mosquitoes)

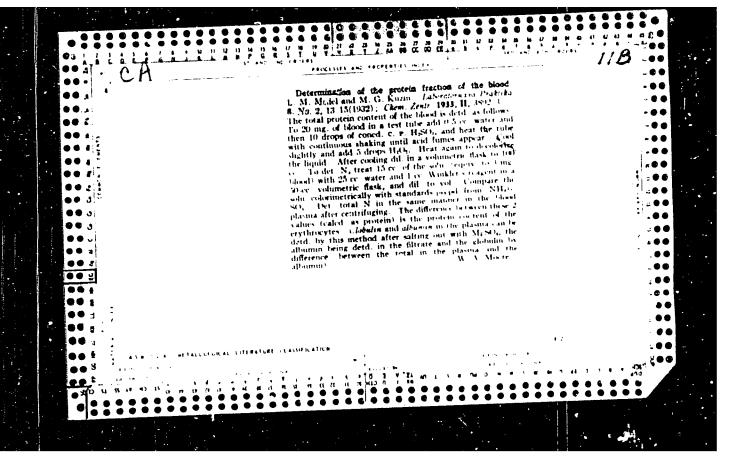
L 08711-67 EWT(1) JK ACC NR. AP 6034116 (A.N)SOURCE CODE: UR/0358/66/035/005/C607/0609 AUTHOR: Model', Kh. M.; Mishayeva, N. P. Belorussian Scientific Research Institute of Epidemiology and Microbiology, Minsk (Belorusskiy nauchno-issledovatel skiy institut epidemiologii i mikrobiologii) TITLE: Studies of the fauna and ecology of bloodsucking mosquitoes in the Gonel' oblast of the Byelorussian SSR SOURCE: Meditsinskaya parazitologiya i parazitarnyye bolezni, v. 35, no. 5, 1966, 607-609 TOPIC TAGS: animal disease, disease vector, mosquito, population study, BIOLOGIC ECOLOGY ABSTRACT: Twenty species of mosquitoes were identified in the Svetlogorsk rayon, including 18 bloodsucking species (subfamily Culicinae) belonging to the genera Anopheles, Aedes, Culex, and Theobaldia, and two non-bloodsucking species (subfamily Chaoborinae) belonging to the genera Chacborus and Moch.onyx. The most numerous and widespread species of bloodsucking mosquitoes were Aedes communis, Aedes exorucians, Aedes punctor, and Aedes maculatus. The chief breeding places for Aedes mosquitoes wers forest and meadow bogs, sinkholes, trenches, UDC: 576.895.771.01+576.895.771.095.11 Card 1/2 (476.2)

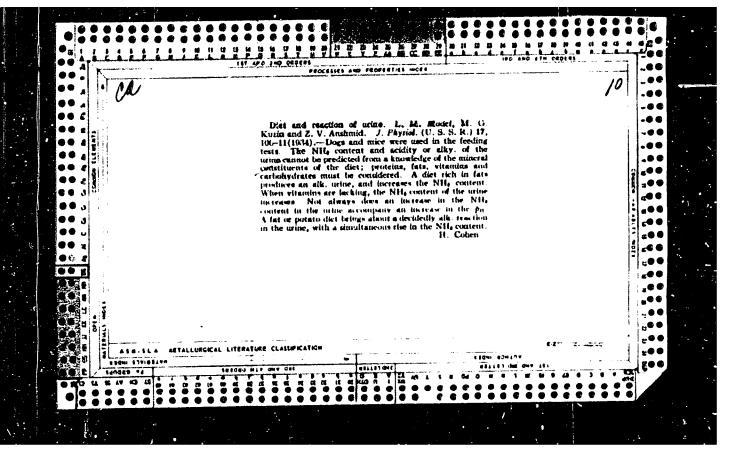
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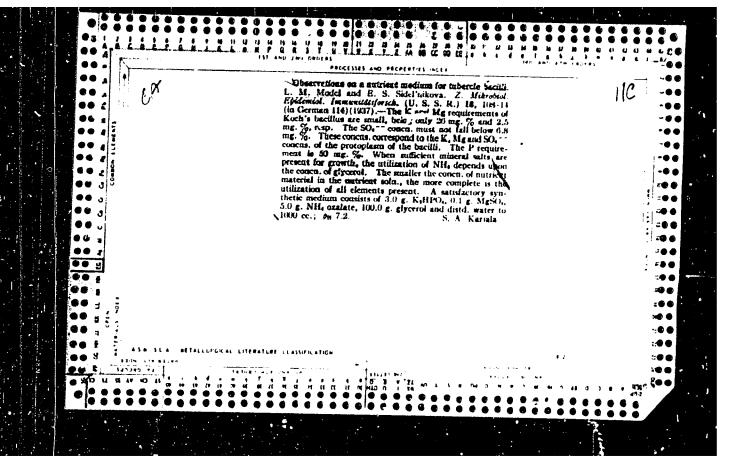


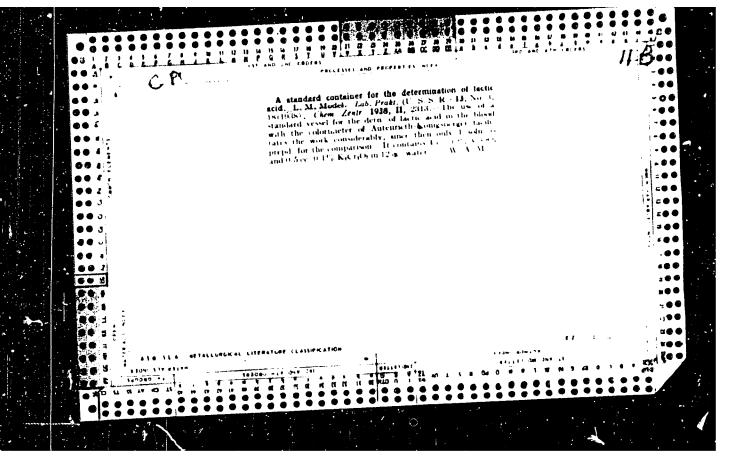


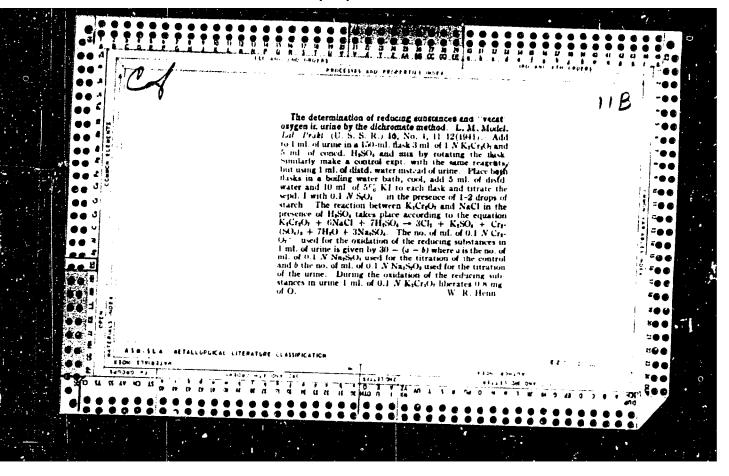
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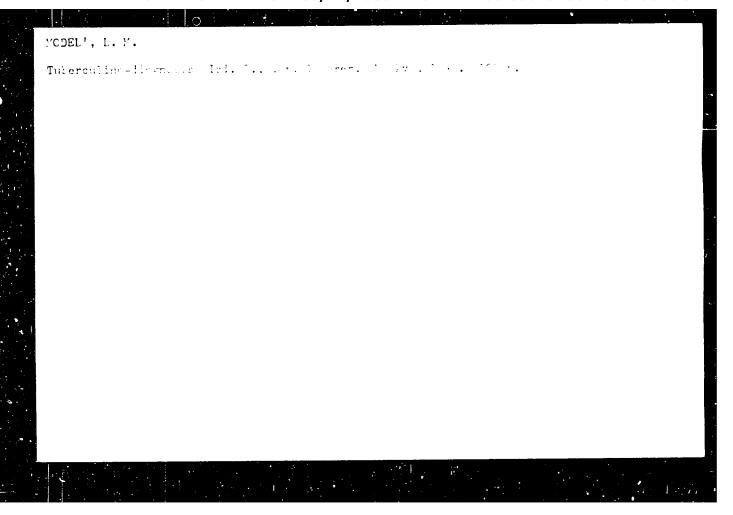


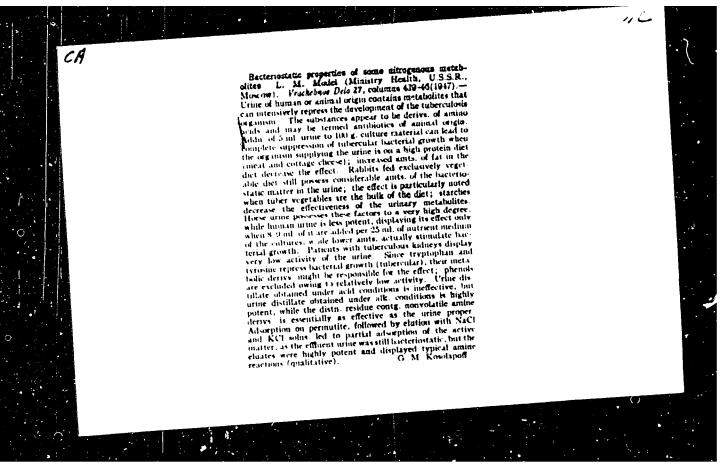


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Exptl. Microbiology Lab., Uzbek, Inst. for Sci.
Research on Tuberculosis, (-124-).

"Experiment in the Preparation of the Tuberculine on Synthetic Medium,"

Zhur. Mikrobiol., Epidemiol., i Immunobiol., No. 10-11, 1944.
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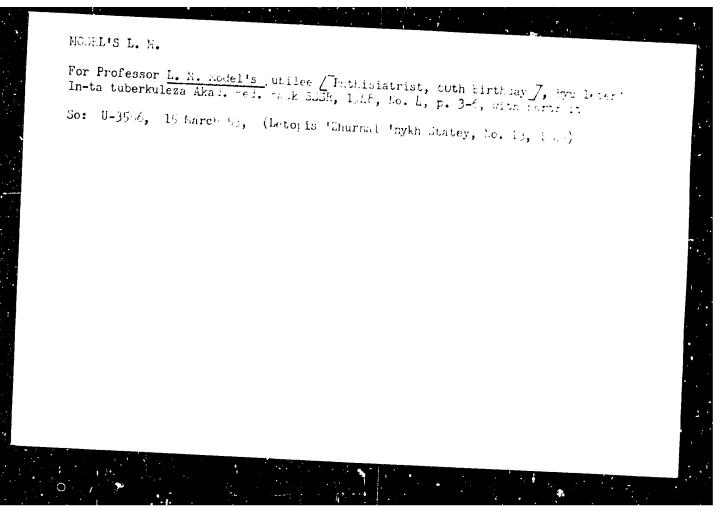




MODEL', L. M.

25899 Model', L. M. O Razmnozhenii Tuberkuleznykh Batsill Voligoaerobnykh Usloviyakh. Byulleten' In-ta Tuberkuleza Akad. Med.
Nauk SSSR, 1948, No. 1, S 21-24

SO: Letopis' Zhurnal Statey, No. 30, Moscow, 1948



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Model' L. M. "The problems of t.berculosis in the li.int of Micharinist biology," Syulleten' In-ta tuberkulesa Akad. med. nauk 353R, 1949, No. 1, p. 7-12.

SO: U-3736, 21 May 53, (Letopis 'Znurnal 'nykh Statey, No. 1), 1949).

MODEL', L. M.

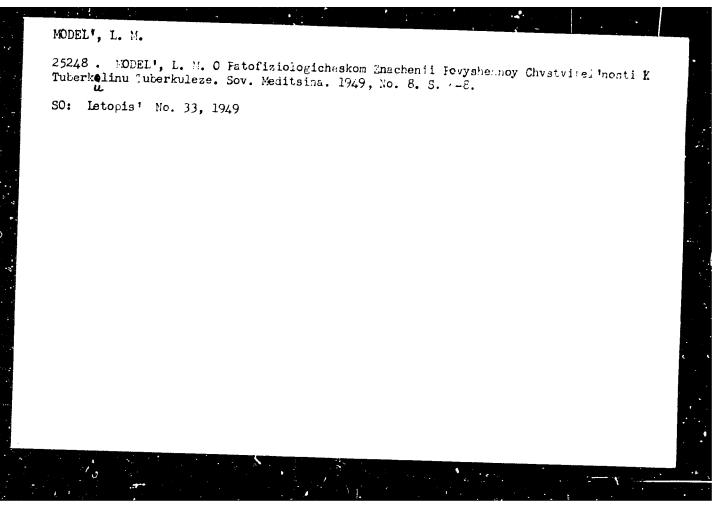
Model', L. M. and Gol'dfand, R. A. and Ioffe, R. A. - "Changes in the chemical composition of the spinal fluid of tuberculosis meningitis patients undergoing streptomycin treatment", Trudy Akad. med. nauk SSSR, Vol. II, 1949, p. 133-42.

SO: U-4329, 19 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 21, 1949).

MODEL', L. M.

33469. Nauchnyy Fodwig I. P. Pawlova. Problemy <sup>1</sup>µberkuleza, 1949, No. 5, c. 14-17.

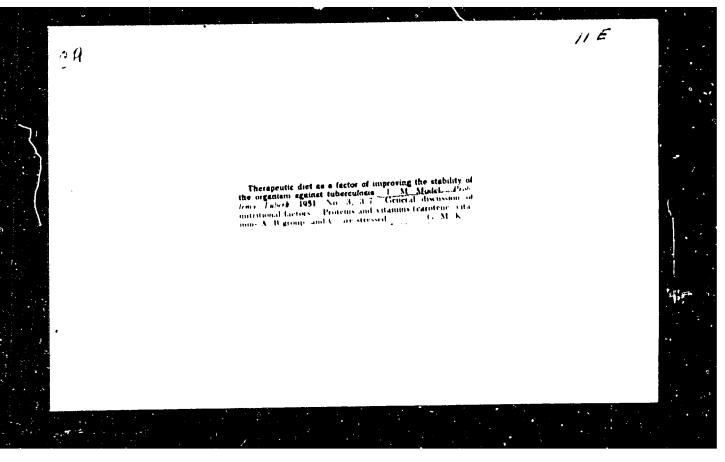
SO. Letopia' Zhurnal'nykh Statey, Vol. 45, Moskva, 1949

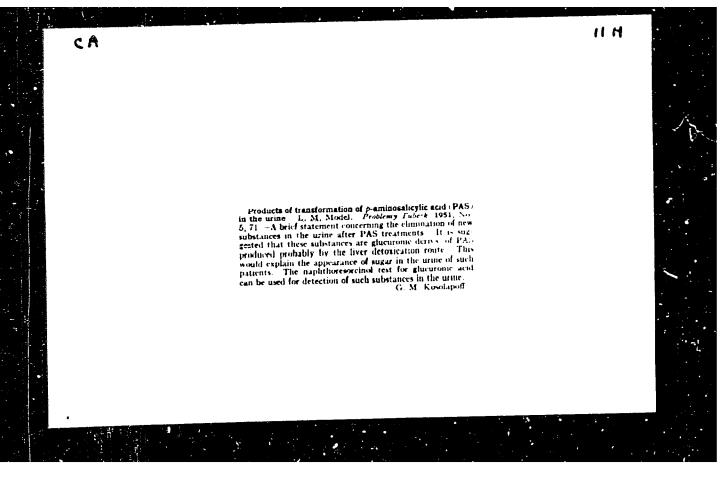


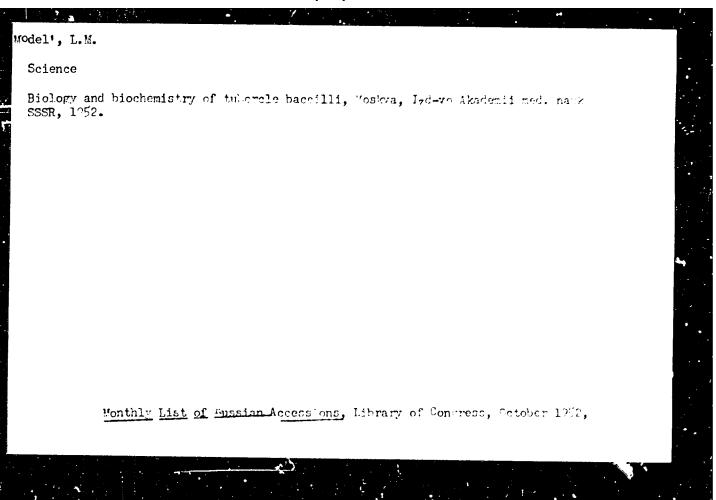
MODEL', L. M.

Contemporary problems of immunobiology of tuberculosis. Probl. tuberk., Moskva no.4:16-21 July-Aug. 1950. (CIML 20:1)

1. Of the Institute of Tuberculosis of the Academy of Medical Sciences USSR (Director -- Z. A. Lebedeva).







Model, L. M.

USSR/Medicine - Infectious Diseases

Jan/Mar 53

"L. M. Model's 'Biology and Biochemistry of Tuberculosis Mycobacteria," " ("ro A. I.

Vest Akad Med Nauk SSSR, No 1, pp 49-52

States that acc Model's book (Biologiya i biokhimiya tuberkuleznykh mikobakteriy), fatty acids do not suppress tuberculosis bacilli, which easily oxidize them. Says that acc results of Model's expts, auxins suppress the growth of tuberculosis bacilli in vitro. Mentions that Model's book discusses thiosemicarbazones (e.g., praacetaminobenzaldehyde thiosemicarbazone and the USSR drug, tubin, synthesized by I. Kh. Fel'dman), which are effective drugs for the therapy of tuberculosis, and says that tubin is particularly effective, because paraaminobenzoic acid does not exert an antagonistic effect on it. Refers to Model's monograph as a valuable contribution to the knowledge of the biochemistry and physiology of tuberculosis bacilli and of other acid-resistany mycobacteria. Book published Moscow, 1952, by Acad Med Sci USSR: contains 249 pp.

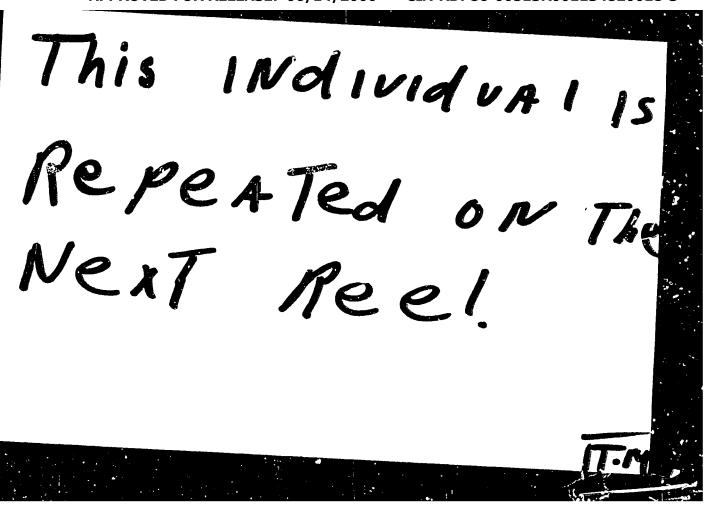
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